Parts Catalog

ARC TYPE R-13B & R-32 RECEIVERS

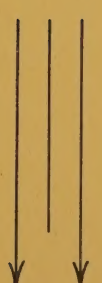
Aircraft Radio Corporation *Boonton, New Jersey*

Parts Catalog

for

ARC TYPE R-13B & R-32

RECEIVERS



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SECTION I

GENERAL INFORMATION

1-1. INTRODUCTION.

This book provides parts information for the ARC Type R-13B and ARC Type R-32 Receivers (Figures 1 and 2), manufactured by Aircraft Radio Corporation, Boonton, New Jersey. Included are instructions for using the Parts Catalog, illustrations showing disassembly relationship, a parts list, a numerical index, and a reference designation index.

1-2. PARTS LIST.

The Parts List, Section II, consists of a breakdown of the R-13B and R-32 into assemblies, subassemblies, and detail parts. Each assembly is listed in its order of disassembly and is followed by its detail parts, except where reference is made to other illustrations. Items which are made from bulk stock, such as cut lengths of wire, are not included in the Parts List.

In the figure and index number column, the digit preceding the hyphen refers to the corresponding illustration. The digits following the hyphen are the index numbers of parts and assemblies. The index numbers are numerically arranged in the Parts List and are used primarily to assist in locating a part in the Parts List when the part number has been located in the Numerical Index, Section III. The index numbers also assist in locating the part on the referenced illustrations.

The ARC part number column contains the Aircraft Radio Corporation assigned part number for the indexed item. If an ARC part number has not been assigned, the symbol "-" appears in the part number column. Codes and part numbers of manufacturers other than ARC are included in parentheses in the description column.

The description column lists each assembly, and its detail parts properly indented to show their relationship to the assembly. Attaching parts are listed in the same column immediately following the parts they attach. The symbol " - - - * - - - " indicates the completion of the attaching parts for an assembly or part. A reference to a figure and index number in the description column refers to a separate illustration and listing in which the detail parts are shown, or to an illustration on which the part is shown as an assembled item.

Except for attaching parts, the quantities listed in the units-per-assembly column are the quantities per assembly, per subassembly, etc. The quantities specified, therefore, are not necessarily the total for the R-13B or R-32. Refer to the Numerical Index, Section III, for total quantities. The letters "Ref" indicate an assembly which was previously removed and accounted for.

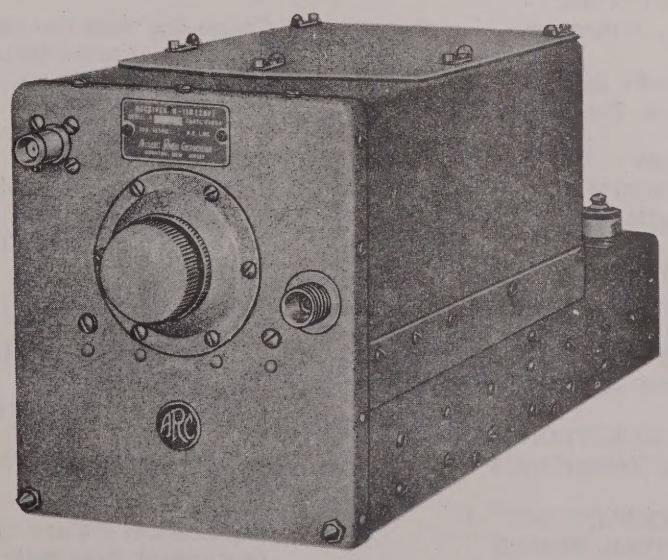

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Figure 1. ARC Type R-13B Radio Receiver

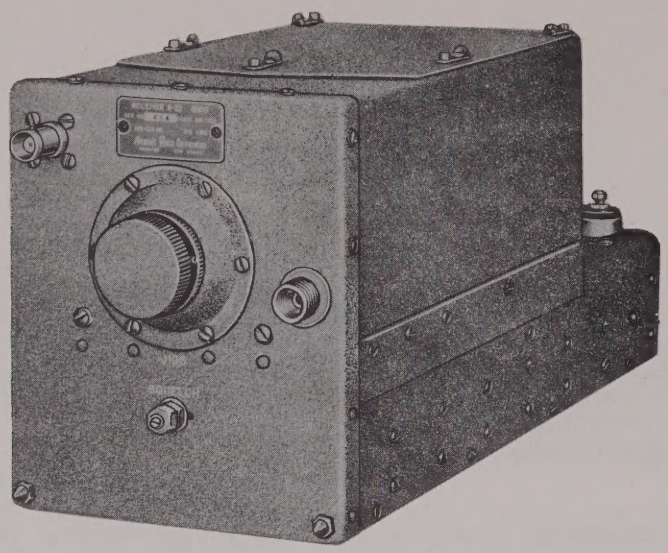

Figure 2. ARC Type R-32 Radio Receiver TP1160

1-3. MANUFACTURERS' CODE.
The following is a list of manufacturers' codes, and the corresponding names and addresses, which are referenced in this Parts Catalog.

CODE	NAME AND ADDRESS
AB	ALLEN BRADLEY CO Milwaukee, Wisconsin
AEV	AEROVOX CORP New Bedford, Massachusetts
CN	CENTRALAB DIV GLOBE-UNION INC Milwaukee, Wisconsin
EBY	HUGH H. EBY INC Philadelphia, Pennsylvania
GBR	GLOBAR DIV CARBORUNDUM CO Niagara Falls, New York
GVP	GROOV-PIN CORP Ridgefield, New Jersey
IRC	INTERNATIONAL RESISTANCE CO Philadelphia, Pennsylvania
JFE	JEFFERS ELECTRONICS St. Marys, Pennsylvania
SH	SHAKEPROOF INC DIV ILLINOIS TOOL WORKS Chicago, Illinois

1-4. NUMERICAL INDEX.
The part number column of the Numerical Index lists all part numbers included in the Parts List, Section II, and is compiled in accordance with the following alphabetical-numerical system.

Part number arrangement starts at the left and continues from left to right, one column at a time, until part number position in the Numerical Index is determined. Beginning with the first column, the order of precedence to determine the part number position is as follows:

(1) Letters A through Z

(2) Numerals 0 through 9

Continuing with the second and succeeding columns, the order of precedence to determine the part number position is as follows:

(1) Space (blank column)

(2) Diagonal (slant) /

(3) Point (period) .

(4) Dash (-)

(5) Parentheses ()

(6) Letters A through Z

(7) Numerals 0 through 9

Alphabetical 0's are considered as numerical zeroes. Parts which have neither an ARC nor a manufacturer's part number are listed by item name.

In the figure and index number column the digits preceding the dash refer to the figure in the Parts

List, Section II, on which the assemblies or parts are illustrated. The digits following the dash are the index numbers of the parts or assemblies. The total quantity column lists the total quantity of assemblies or parts for the receivers.

1-5. REFERENCE DESIGNATION INDEX.
The Reference Designation Index, Section IV, lists reference designations which have been assigned to parts of the R-13B and R-32. The reference designation column lists the reference designations in alphabetical-numerical sequence. All reference designations used in illustrations and publications pertaining to the R-13B and R-32 are listed. The figure and index number column is used to locate the part in the Parts List. The part number column lists the part numbers of those parts which have been assigned reference designations.

1-6. HOW TO USE THIS PARTS CATALOG.
When a part number is known and it is desired to locate and identify the part, refer to the Numerical Index, Section III. Using the alphabetical-numerical arrangement, locate the part number. Note the figure and index number opposite the part number. Refer to the referenced figure and index number in the Parts List, Section II.

When the location and appearance of a part is known and it is desired to determine its part number and description, refer to the Table of Contents of the Parts Catalog for the page number of the major assembly which illustrates the desired part. Then refer to the Parts List, Section II, and identify the part of the illustration by its index number. The part number and description will be found immediately opposite the figure and index number in the parts list for the illustration.

SECTION II

PARTS LIST

Figure & Index No.	ARC Part No.	Description 1 2 3 4 5 6	Units per Assy
3-	15511(14V)	RECEIVER, Radio, ARC Type R-13B(14V) (see figures 4, 5, 6, . . . and 8)	1
3-	15511(28V)	RECEIVER, Radio, ARC Type R-13B(28V) (see figures 4, 5, 6, . . . and 8)	1
3-	19810(14V)	RECEIVER, Radio, ARC Type R-32(14V) (see figures 4, 5, 7, . . . and 8)	1
3-	19810(28V)	RECEIVER, Radio, ARC Type R-32(28V) (see figures 4, 5, 7, . . . and 8)	1
-1	15599	. COVER, Tube access (used on R-13B)	1
-1	19864	. COVER, Tube access (used on R-32)	1
-2	15596	. COVER, Bottom (used on R-13B)	1
-2	19865	. COVER, Bottom (used on R-32)	1
		(ATTACHING PARTS)	
	113(3/16)	. SCREW, Machine, binding head, brass, black oxidized, ... 3-48 thd by 3/16 in. long	14
		- - - * - - -	
-3	12469	. COVER, Top	1
		(ATTACHING PARTS)	
	513(3/16)	. SCREW, Assembled washer, binding head, brass screw, ... black oxidized, 3-48 thd by 3/16 in. long, stainless steel lockwasher (SH) (SEMS)	4
		- - - * - - -	
-4	15597	. NAMEPLATE (14V) (used on R-13B)	1
-4	15598	. NAMEPLATE (28V) (used on R-13B)	1
-4	19527	. NAMEPLATE (14V) (used on R-32)	1
-4	19813	. NAMEPLATE (28V) (used on R-32)	1
		(ATTACHING PARTS)	
	8081	. SCREW, Self-tapping, No. 2 by 5/32 in. long (PK) (Type Z) . . .	2

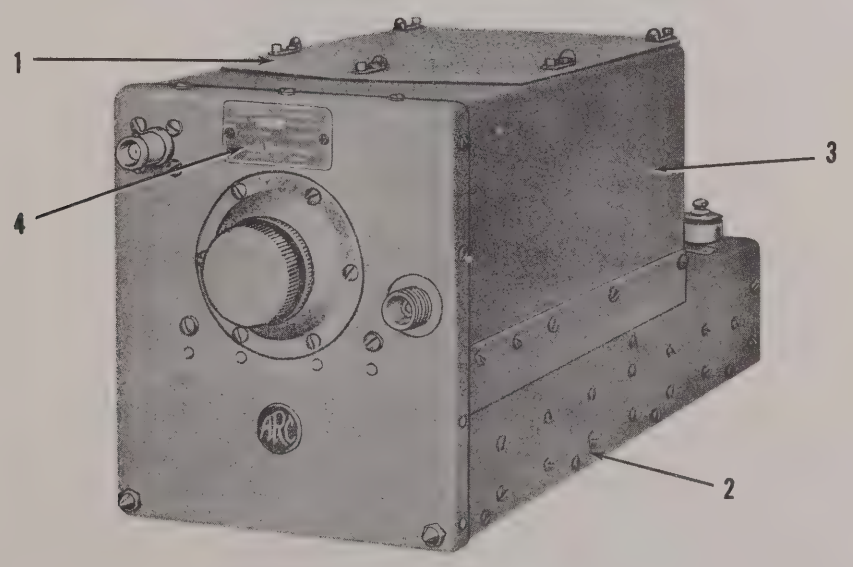

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Figure 3. ARC Type R-13B and R-32 Radio Receiver, Front View

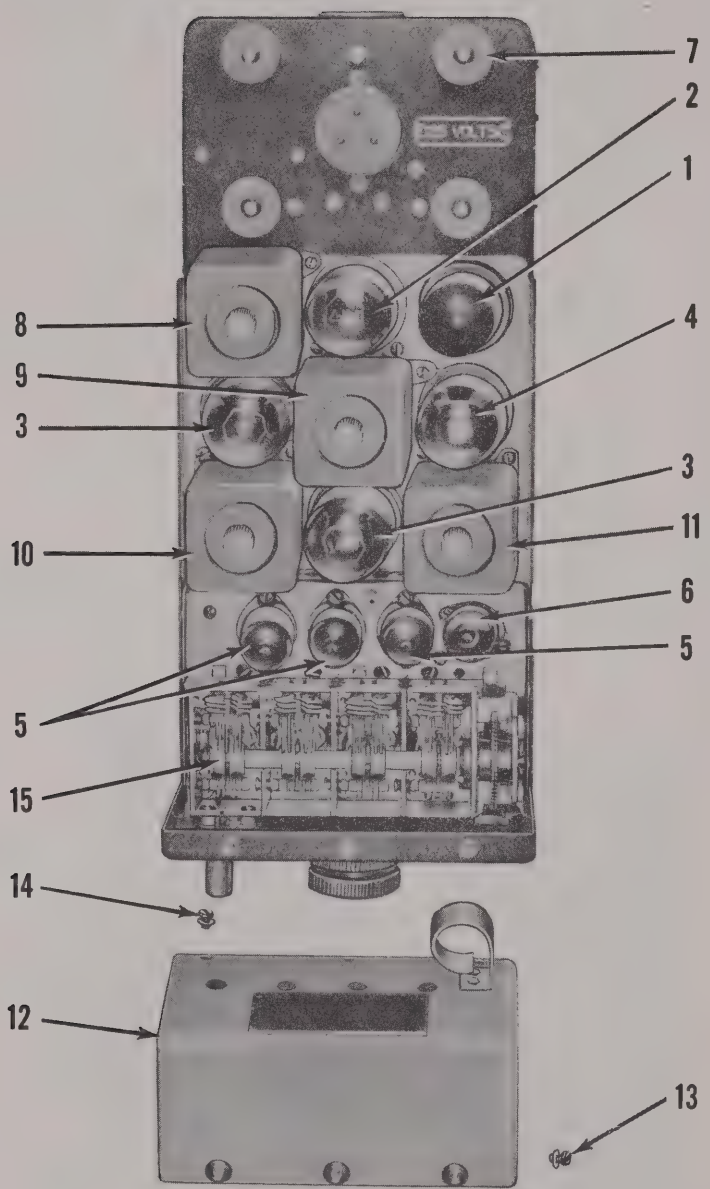

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Figure 4. ARC Type R-13B and R-32 Radio Receiver, Top View

Figure & Index No.	ARC Part No.	Description 1 2 3 4 5 6	Units per Assy
4-	15511(14V)	RECEIVER, Radio, ARC Type R-13B(14V) (see figures 3, 5, 6, and 8) . . .	Ref
4-	15511(28V)	RECEIVER, Radio, ARC Type R-13B(28V) (see figures 3, 5, 6, and 8) . . .	Ref
4-	19810(14V)	RECEIVER, Radio, ARC Type R-32(14V) (see figures 3, 5, 7, and 8) . . .	Ref
4-	19810(28V)	RECEIVER, Radio, ARC Type R-32(28V) (see figures 3, 5, 7, and 8) . . .	Ref
-1	700-171	. ELECTRON TUBE, Type 12A6	1
-2	700-191	. ELECTRON TUBE, Type 14F7	1
-3	700-192	. ELECTRON TUBE, Type 14R7	2
-4	700-189	. ELECTRON TUBE, Type 14A7	1
-5	700-170	. ELECTRON TUBE, Type 9003	3
-6	700-169	. ELECTRON TUBE, Type 9002	1
-7	4681	. MOUNT, Vibration	4
-8	15659	. TRANSFORMER, Intermediate frequency, 15 megacycles . . . . (ATTACHING PARTS)	1
	503(1/4)	. SCREW, Assembled washer, binding head, brass screw, nickel plated, 3-48 thd by 1/4 in. long, stainless steel lockwasher (SH) (SEMS)	2
		- - - * - - -	
-9	12196	. TRANSFORMER, Intermediate frequency, 15 megacycles . . . . (ATTACHING PARTS)	1
	503(1/4)	. SCREW, Assembled washer, binding head, brass screw, nickel plated, 3-48 thd by 1/4 in. long, stainless steel lockwasher (SH) (SEMS)	2
		- - - * - - -	
-10	12197	. TRANSFORMER, Intermediate frequency, 15 megacycles . . . . (ATTACHING PARTS)	1
	503(1/4)	. SCREW, Assembled washer, binding head, brass screw, nickel plated, 3-48 thd by 1/4 in. long, stainless steel lockwasher (SH) (SEMS)	2
		- - - * - - -	
-11	12195	. TRANSFORMER, Intermediate frequency, 15 megacycles . . . . (ATTACHING PARTS)	1
	503(1/4)	. SCREW, Assembled washer, binding head, brass screw, nickel plated, 3-48 thd by 1/4 in. long, stainless steel lockwasher (SH) (SEMS)	2
		- - - * - - -	
-12	9954	. SHIELD, Preselector . . . . . (ATTACHING PARTS)	1
-13	503(7/32)	. SCREW, Assembled washer, binding head, brass screw, nickel plated, 3-48 thd by 7/32 in. long, stainless steel lockwasher (SH) (SEMS)	7
-14	503(5/32)	. SCREW, Assembled washer, binding head, brass screw, nickel plated, 3-48 thd by 5/32 in.long, stainless steel lockwasher (SH) (SEMS)	3
		- - - * - - -	
-15	12457(14V)	. PRESELECTOR ASSEMBLY (see figure 8 for breakdown) . . .	1
-15	12457(28V)	. PRESELECTOR ASSEMBLY (see figure 8 for breakdown) . . . (ATTACHING PARTS)	1
	504(3/16)	. SCREW, Assembled washer, binding head, brass screw, nickel plated, 4-40 thd by 3/16 in. long, stainless steel lockwasher (SH) (SEMS)	2
	8699(3/16)	. SCREW, Assembled washer, binding head, brass screw, nickel plated, 3-56 thd by 3/16 in. long, stainless steel lockwasher (SH) (SEMS)	4
	503(7/32)	. SCREW, Assembled washer, binding head, brass screw, nickel plated, 3-48 thd by 7/32 in. long, stainless steel lockwasher (SH) (SEMS)	8
		- - - * - - -	

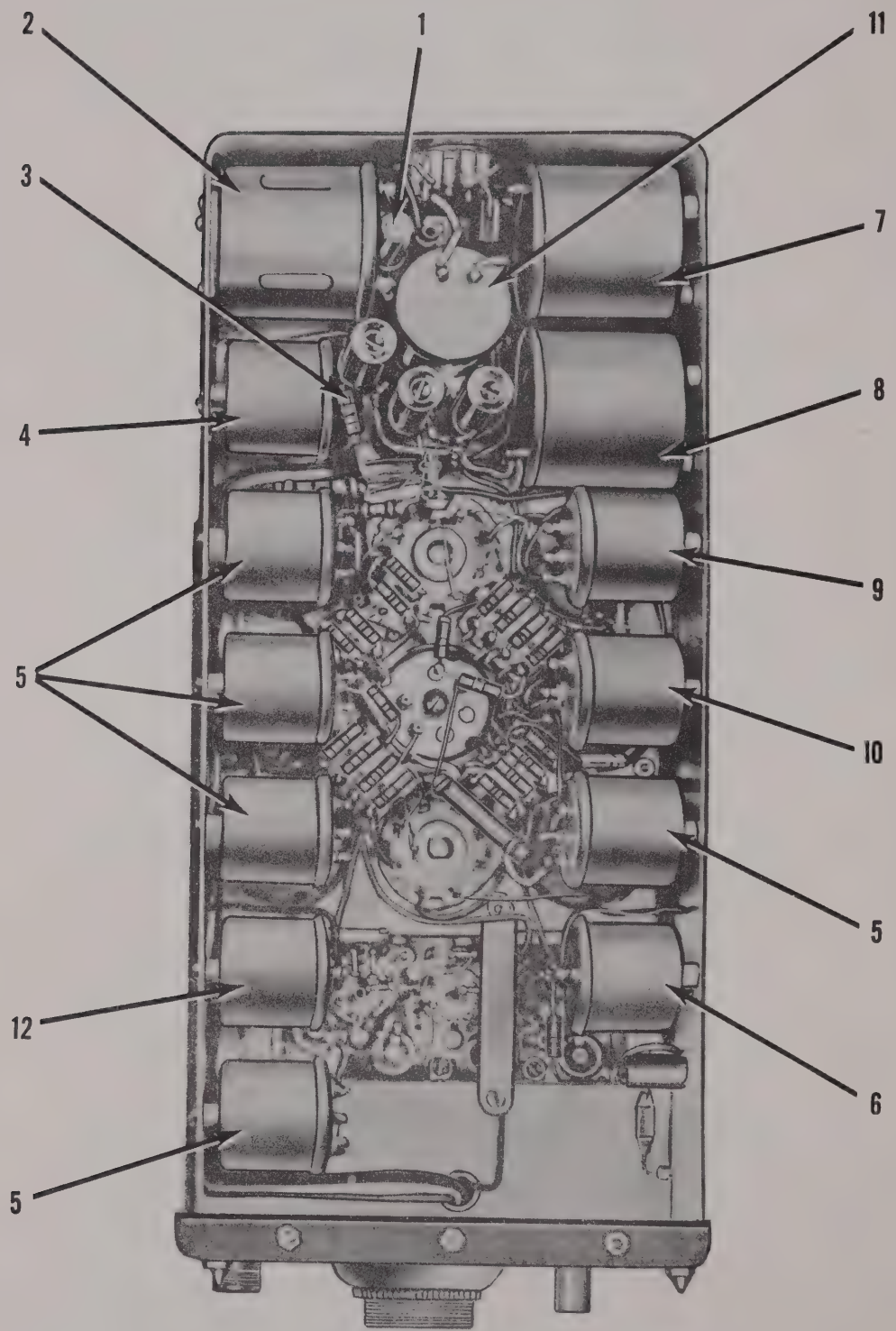

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Figure 5. ARC Type R-13B and R-32 Radio Receiver, Bottom View

Figure & Index No.	ARC Part No.	Description 1 2 3 4 5 6	Units per Assy
5-	15511(14V)	RECEIVER, Radio, ARC Type R-13B(14V) (see figures 3, 4, 6, and 8) . . .	Ref
5-	15511(28V)	RECEIVER, Radio, ARC Type R-13B(28V) (see figures 3, 4, 6, and 8) . . .	Ref
5-	19810(14V)	RECEIVER, Radio, ARC Type R-32(14V) (see figures 3, 4, 7, and 8) . . .	Ref
5-	19810(28V)	RECEIVER, Radio, ARC Type R-32(28V) (see figures 3, 4, 7, and 8) . . .	Ref
-1	8505	. ARRESTER, Electrical surge, thyrite	1
-2	15563	. TRANSFORMER, Audio frequency	1
		(ATTACHING PARTS)	
	503(5/32)	. SCREW, Assembled washer, binding head, brass screw, nickel plated, 3-48 thd by 5/32 in. long, stainless steel lockwasher (SH) (SEMS)	3
		- - - * - - -	
-3	201(1500)	. RESISTOR, Fixed, composition, 1500 ohms ±5 percent, 1/2 watt (AB) (EB1525) (used on R-13B)	1
-4	5416	. CAPACITOR, Fixed, electrolytic, 15 uf, 35 volts dc working . .	1
		(ATTACHING PARTS)	
	503(5/32)	. SCREW, Assembled washer, binding head, brass screw, nickel plated, 3-48 thd by 5/32 in. long, stainless steel lockwasher (SH) (SEMS)	2
		- - - * - - -	
-5	5414	. CAPACITOR, Fixed, paper dielectric, 3 sections, 50,000 uuf each section, ±15 percent, 300 volts dc working . . .	5
		(ATTACHING PARTS)	
	503(5/32)	. SCREW, Assembled washer, binding head, brass screw, nickel plated, 3-48 thd by 5/32 in. long, stainless steel lockwasher (SH) (SEMS)	10
		- - - * - - -	
-6	6350	. CAPACITOR, Fixed, electrolytic, 5 uf, 300 volts dc working . . .	2
		(ATTACHING PARTS)	
	503(5/32)	. SCREW, Assembled washer, binding head, brass screw, nickel plated, 3-48 thd by 5/32 in. long, stainless steel lockwasher (SH) (SEMS)	4
		- - - * - - -	
-7	5634	. REACTOR, 3 henries, 50 milliamperes	1
		(ATTACHING PARTS)	
	503(5/32)	. SCREW, Assembled washer, binding head, brass screw, nickel plated, 3-48 thd by 5/32 in. long, stainless steel lockwasher (SH) (SEMS)	3
		- - - * - - -	
-8	5413	. CAPACITOR, Fixed, paper dielectric, 3 sections, 220,000 uuf each section, ±20 percent, 300 volts dc working . .	1
		(ATTACHING PARTS)	
	503(5/32)	. SCREW, Assembled washer, binding head, brass screw, nickel plated, 3-48 thd by 5/32 in. long, stainless steel lockwasher (SH) (SEMS)	3
		- - - * - - -	
-9	14661	. CAPACITOR, Fixed, paper dielectric, 3 sections, 50,000 uuf each section, ±15 percent, 300 volts dc working . . .	1
		(ATTACHING PARTS)	
	503(5/32)	. SCREW, Assembled washer, binding head, brass screw, nickel plated, 3-48 thd by 5/32 in. long, stainless steel lockwasher (SH) (SEMS)	2
		- - - * - - -	

Figure & Index No.	ARC Part No.	Description 1 2 3 4 5 6	Units per Assy
5-10	11912	. CAPACITOR, Fixed, paper dielectric, 3 sections, ... 50,000 uuf each section, ±15 percent, 300 volts dc working	1
		(ATTACHING PARTS)	
	503(5/32)	. SCREW, Assembled washer, binding head, brass screw, ... nickel plated, 3-48 thd by 5/32 in. long, stainless steel lockwasher (SH) (SEMS)	2
		- - - * - - -	
	5546	. COIL, Radio frequency, 0.098 millihenries ±5 percent	1
		(ATTACHING PARTS)	
	503(7/32)	. SCREW, Assembled washer, binding head, brass screw, ... nickel plated, 3-48 thd by 7/32 in. long, stainless steel lockwasher (SH) (SEMS)	2
		- - - * - - -	

Figure & Index No.	ARC Part No.	Description 1 2 3 4 5 6	Units per Assy
6-	15511(14V)	RECEIVER, Radio, ARC Type R-13B(14V) (see figures 3, 4, 5, and 8)	Ref
6-	15511(28V)	RECEIVER, Radio, ARC Type R-13B(28V) (see figures 3, 4, 5, and 8)	Ref
-1	5258	. PLATE, Mounting	1
		(ATTACHING PARTS)	
	103(5/16)	. SCREW, Machine, binding head, brass, nickel plated, 3-48 thd by 5/16 in. long	2
	4103	. WASHER, Lock (SH) (1703-00)	2
		- - - * - - -	
-2	9542	. TERMINAL, Lug	1
-3	1482	. TERMINAL, Lug	1
-4	4089	. CAPACITOR, Fixed, mica dielectric, 2000 uuf, ±5 percent, 500 volts dc working (AEV) [1461(.002)]	1
		(ATTACHING PARTS)	
	103(7/16)	. SCREW, Machine, binding head, brass, nickel plated, 3-48 thd by 7/16 in. long	2
		- - - * - - -	
-5	8066(84)	. RESISTOR, Fixed, wire-wound, 84 ohms ±2 percent, 7 watts [used on R-13B(14V)]	1
		(ATTACHING PARTS)	
	104(1/4)	. SCREW, Machine, binding head, brass, nickel plated, 4-40 thd by 1/4 in. long [used on R-13B(28V)	1
	5402	. WASHER, Flat [used on R-13B(28V)]	1
		- - - * - - -	
-6	5895(7K)	. RESISTOR, Fixed, wire-wound, 7000 ohms ±5 percent, 10 watts	2
		(ATTACHING PARTS)	
	104(1/4)	. SCREW, Machine, binding head, brass, nickel plated, 4-40 thd by 1/4 in. long	2
	5402	. WASHER, Flat	2
		- - - * - - -	
-7	201(200)	. RESISTOR, Fixed, composition, 200 ohms ±5 percent, 1/2 watt (AB) (EB2015)	5
-8	201(1MEG)	. RESISTOR, Fixed, composition, 1 megohm ±5 percent, 1/2 watt (AB) (EB1055)	2
-9	201(10K)	. RESISTOR, Fixed, composition, 10,000 ohms ±5 percent, 1/2 watt (AB) (EB1035)	1
-10	201(20K)	. RESISTOR, Fixed, composition, 20,000 ohms ±5 percent, 1/2 watt (AB) (EB2035)	1
-11	201(390)	. RESISTOR, Fixed, composition, 390 ohms ±5 percent, 1/2 watt (AB) (EB3915)	1
-12	201(39K)	. RESISTOR, Fixed, composition, 39,000 ohms ±5 percent, 1/2 watt (AB) (EB3935)	1
-13	8283	. CAPACITOR, Fixed, ceramic dielectric, 10,000 uuf, 500 volts dc working	1
-14	201(820)	. RESISTOR, Fixed, composition, 820 ohms ±5 percent, 1/2 watt (AB) (EB8215)	2
-15	201(100K)	. RESISTOR, Fixed, composition, 100,000 ohms ±5 percent, 1/2 watt (AB) (EB1045)	3
-16	201(*)	. RESISTOR, Fixed, selected value[1]	1
-17	201(*)	. RESISTOR, Fixed, selected value[2]	1
-18	201(10MEG)	. RESISTOR, Fixed, composition, 10 megohms ±5 percent, 1/2 watt (AB) (EB1065)	1
-19	201(3MEG)	. RESISTOR, Fixed, composition, 3 megohms ±5 percent, 1/2 watt (AB) (EB3055)	1

[1] One value selected from 0, 200K, 390K, 560K, 750K, 1MEG, 1.2MEG, 1.8MEG, or 2MEG. Insert value in place of asterisk (*) to complete part number.

[2] One value selected from 20K, 33K, 56K, 75K, 91K, 110K, 130K, 150K, 160K, or 180K. Insert value in place of asterisk (*) to complete part number.

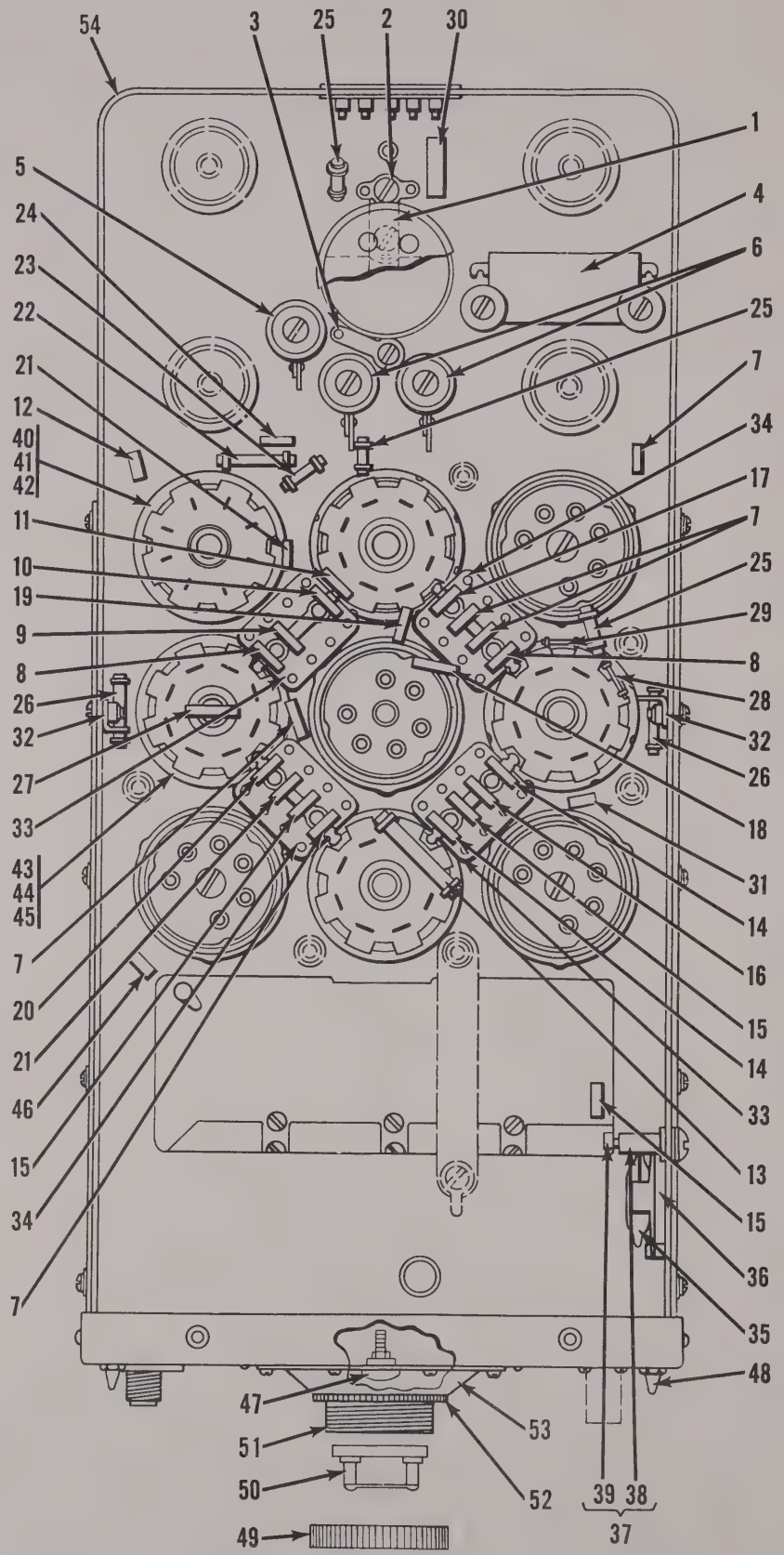

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Figure 6. ARC Type R-13B Radio Receiver, Bottom View

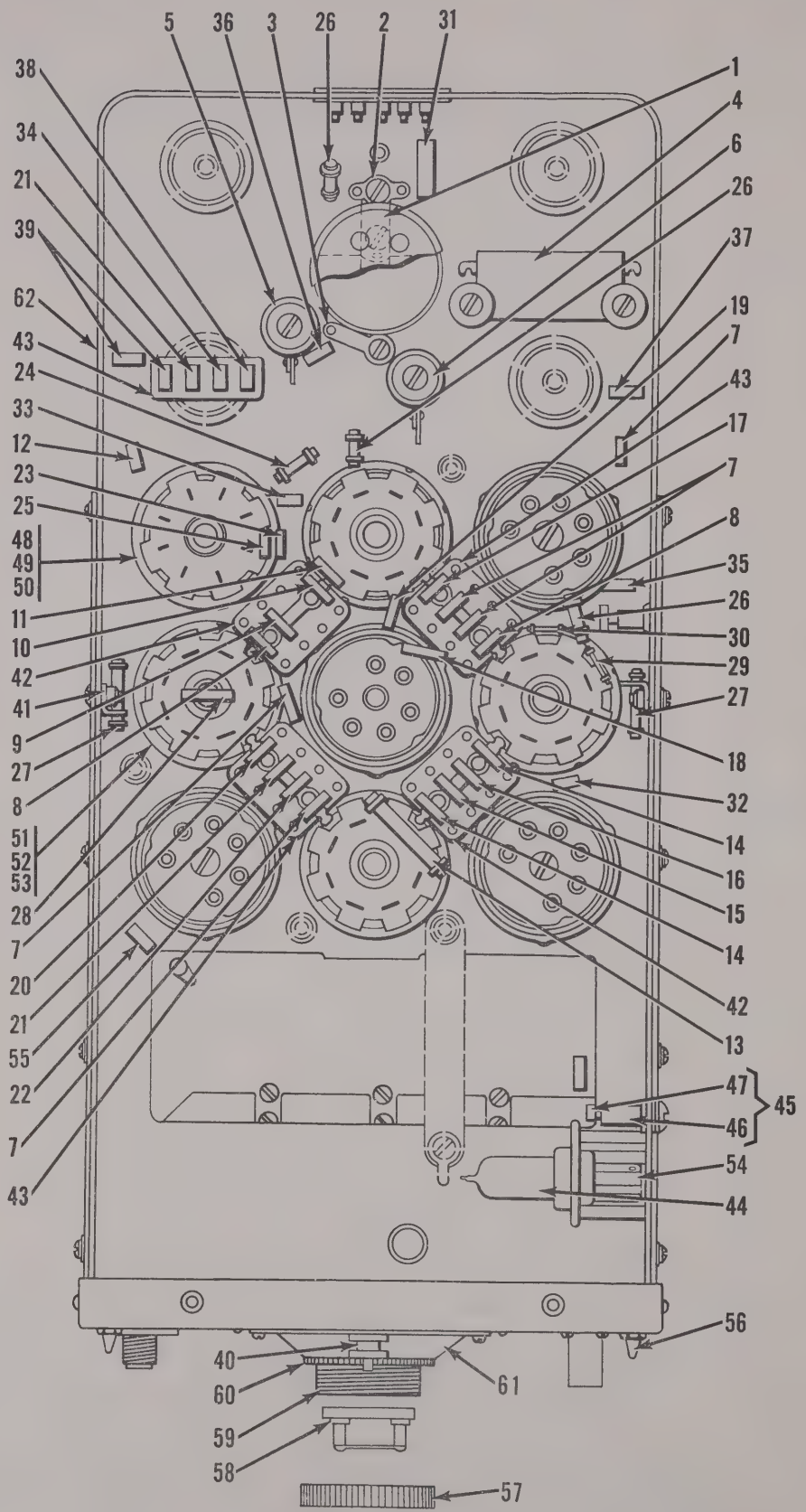
Figure & Index No.	ARC Part No.	Description 1 2 3 4 5 6	Units per Assy
6-20	201(1500)	. RESISTOR, Fixed, composition, 1500 ohms ±5 percent, ... 1/2 watt (AB) (EB1525)	1
-21	201(200K)	. RESISTOR, Fixed, composition, 200,000 ohms ±5 percent, . . . 1/2 watt (AB) (EB2045)	2
-22	4513	. CAPACITOR, Fixed, ceramic dielectric, 200 uuf . . . . . ±5 percent, 500 volts dc working	1
-23	8592	. CAPACITOR, Fixed, ceramic dielectric, 300 uuf . . . . . ±5 percent, 500 volts dc working	1
-24	201(2MEG)	. RESISTOR, Fixed, composition, 2 megohms ±5 percent, ... 1/2 watt (AB) (EB2055)	1
-25	4520	. CAPACITOR, Fixed, ceramic dielectric, 100 uuf . . . . . ±5 percent, 500 volts dc working	3
-26	8516	. CAPACITOR, Fixed, ceramic dielectric, 4700 uuf, ... 500 volts dc working	2
-27	8554	. CAPACITOR, Fixed, ceramic dielectric, 2700 uuf, ... 500 volts dc working	1
-28	204(150K)	. RESISTOR, Fixed, composition, 150,000 ohms ±10 percent, . . . 1/5 watt (GBR) [997A(150,000)]	1
-29	205(1MEG)	. RESISTOR, Fixed, film, 1 megohm ±1 percent, ... 1/4 watt (IRC) [DDC(1MEG)]	1
-30	4522	. CAPACITOR, Fixed, mica dielectric, 750 uuf ±5 percent, ... 300 volts dc working (AEV) (1466)	1
-31	204(2.7MEG)	. RESISTOR, Fixed, composition, 2.7 megohms ±10 percent, . . . 1/5 watt (GBR) [997A(2.7MEG)]	1
-32	14378	. TERMINAL, Lug . . . . . (ATTACHING PARTS)	2
	103(3/16)	. SCREW, Machine, binding head, brass, nickel plated, ... 3-48 thd by 3/16 in. long	2
	4103	. WASHER, Lock (SH) (1703-00) . . . . . - - - * - - -	2
-33	12858	. TERMINAL BOARD . . . . . (ATTACHING PARTS)	2
	103(5/16)	. SCREW, Machine, binding head, brass, nickel plated, ... 3-48 thd by 5/16 in. long	2
	103(5/32)	. SCREW, Machine, binding head, brass, nickel plated, ... 3-48 thd by 5/32 in. long	2
	4103	. WASHER, Lock (SH) (1703-00) . . . . . - - - * - - -	2
-34	12855	. TERMINAL BOARD . . . . . (ATTACHING PARTS)	2
	103(5/32)	. SCREW, Machine, binding head, brass, nickel plated, ... 3-48 thd by 5/32 in. long	4
	4103	. WASHER, Lock (SH) (1703-00) . . . . . - - - * - - -	4
-35	700-202	. ELECTRON TUBE, Type 5783WA	1
-36	16641	. CLIP, Electrical . . . . . (ATTACHING PARTS)	1
	103(5/32)	. SCREW, Machine, binding head, brass, nickel plated, ... 3-48 thd by 5/32 in. long	2
	4103	. WASHER, Lock (SH) (1703-00) . . . . . - - - * - - -	2
-37	14556	. INSULATOR ASSEMBLY . . . . . (ATTACHING PARTS)	1
	103(7/32)	. SCREW, Machine, binding head, brass, nickel plated, ... 3-48 thd by 7/32 in. long	1
	10353	. WASHER, Curved	1
	12924	. WASHER, Non-metallic, rubber . . . . . - - - * - - -	1
-38	9368	. . INSULATOR, Stand-off	1
-39	6812	. . TERMINAL, Stud	1
-40	6559	. SOCKET, Electron tube	1

Figure & Index No.	ARC Part No.	Description 1 2 3 4 5 6	Units per Assy
		(ATTACHING PARTS)	
6-41	11976	. RING, Retaining (supplied with 40, figure 6)	1
-42	6566	. RING, Flat - - - * - - -	1
-43	12292	. SOCKET, Electron tube (ATTACHING PARTS)	4
-44	12913	. RING, Retaining (supplied with 43, figure 6)	4
-45	6566	. RING, Flat - - - * - - -	4
-46	15174	. COIL, Radio frequency, 14 uh (JFE) (CFIr-7/16)	1
-47	14115	. EMBLEM (ATTACHING PARTS)	1
	8040	. NUT, Hexagon, brass, nickel plated, 4-40 thd by 1/16 in. thick	1
	7730	. WASHER, Curved - - - * - - -	1
-48	4710	. STUD, Threaded (ATTACHING PARTS)	2
	4041	. NUT, Hexagon, brass, 6-32 thd by 1/16 in. thick	2
	8488	. WASHER, Lock (SH) (1706-00) - - - * - - -	2
-49	14588	. CAP, Electrical	1
-50	11934	. DUMMY, Connector plug	1
-51	11905	. CONNECTOR, Plug (ATTACHING PARTS)	1
-52	5131	. NUT, Knurled (supplied with 51, figure 6) - - - * - - -	1
-53	11840	. RING (ATTACHING PARTS)	1
	103(3/16)	. SCREW, Machine, binding head, brass, nickel plated, 3-48 thd by 3/16 in. long	6
	4103	. WASHER, Lock (SH) (1703-00) - - - * - - -	6
-54	15590	. CHASSIS ASSEMBLY, c/o chassis 15591, connector 5488, connector 4718, sleeve 6397, and terminal 5914	1

Figure & Index No.	ARC Part No.	Description 1 2 3 4 5 6	Units per Assy
7-	19810(14V)	RECEIVER, Radio, ARC Type R-32(14V) (see figures 3, 4, 5, and 8)	Ref
7-	19810(28V)	RECEIVER, Radio, ARC Type R-32(28V) (see figures 3, 4, 5, and 8)	Ref
-1	5258	. PLATE, Mounting	1
		(ATTACHING PARTS)	
	503(5/16)	. SCREW, Assembled washer, binding head, brass screw, nickel plated, 3-48 thd by 5/16 in. long, stainless steel lockwasher (SH) (SEMS)	2
		- - - * - - -	
-2	9542	. TERMINAL, Lug	1
-3	1482	. TERMINAL, Lug	1
-4	4089	. CAPACITOR, Fixed, mica dielectric, 2000 uuf ±5 percent, 500 volts dc working (AEV) [1461(.002)]	1
		(ATTACHING PARTS)	
	103(7/16)	. SCREW, Machine, binding head, brass, nickel plated, 3-48 thd by 7/16 in. long	2
		- - - * - - -	
-5	8066(84)	. RESISTOR, Fixed, wire-wound, 84 ohms ±2 percent, 7 watts [used on R-32(28V)]	1
		(ATTACHING PARTS)	
	104(1/4)	. SCREW, Machine, binding head, brass, nickel plated, 4-40 thd by 1/4 in. long [used on R-32(28V)]	1
	5402	. WASHER, Flat [used on R-32(28V)]	
		- - - * - - -	
-6	5895(7K)	. RESISTOR, Fixed, wire-wound, 7000 ohms ±5 percent, 10 watts	1
		(ATTACHING PARTS)	
	104(1/4)	. SCREW, Machine, binding head, brass, nickel plated, 4-40 thd by 1/4 in. long	1
	5402	. WASHER, Flat	1
		- - - * - - -	
-7	201(200)	. RESISTOR, Fixed, composition, 200 ohms ±5 percent, 1/2 watt (AB) (EB2015)	5
-8	201(1MEG)	. RESISTOR, Fixed, composition, 1 megohm ±5 percent, 1/2 watt (AB) (EB1055)	2
-9	201(10K)	. RESISTOR, Fixed, composition, 10,000 ohms ±5 percent, 1/2 watt (AB) (EB1035)	1
-10	201(20K)	. RESISTOR, Fixed, composition, 20,000 ohms ±5 percent, 1/2 watt (AB) (EB2035)	1
-11	201(390)	. RESISTOR, Fixed, composition, 390 ohms ±5 percent, 1/2 watt (AB) (EB3915)	1
-12	201(56K)	. RESISTOR, Fixed, composition, 56,000 ohms ±5 percent, 1/2 watt (AB) (EB5635)	1
-13	8283	. CAPACITOR, Fixed, ceramic dielectric, 10,000 uuf, 500 volts dc working	1
-14	201(820)	. RESISTOR, Fixed, composition, 820 ohms ±5 percent, 1/2 watt (AB) (EB8215)	2
-15	201(100K)	. RESISTOR, Fixed, composition, 100,000 ohms ±5 percent, 1/2 watt (AB) (EB1045)	1
-16	201(*)	. RESISTOR, Fixed, selected value[1]	1
-17	201(*)	. RESISTOR, Fixed, selected value[2]	1
-18	201(10MEG)	. RESISTOR, Fixed, composition, 10 megohms ±5 percent, 1/2 watt (AB) (EB1065)	1

[1] One value selected from 0, 200K, 390K, 560K, 750K, 1MEG, 1.2MEG, 1.5MEG, 1.8MEG, or 2MEG. Insert value in place of asterisk (*) to complete part number.

[2] One value selected from 56K, 75K, 91K, 110K, 130K, 150K, 160K, or 180K. Insert value in place of asterisk (*) to complete part number.



TP1493

Figure 7. ARC Type R-32 Radio Receiver, Bottom View

Figure & Index No.	ARC Part No.	Description 1 2 3 4 5 6	Units per Assy
7-19	201(3MEG)	. RESISTOR, Fixed, composition, 3 megohms ±5 percent, ... 1/2 watt (AB) (EB3055)	1
-20	201(1500)	. RESISTOR, Fixed, composition, 1500 ohms ±5 percent, ... 1/2 watt (AB) (EB1525)	1
-21	201(200K)	. RESISTOR, Fixed, composition, 200,000 ohms ±5 percent, . . . 1/2 watt (AB) (EB2045)	2
-22	201(82K)	. RESISTOR, Fixed, composition, 82,000 ohms ±5 percent, ... 1/2 watt (AB) (EB8235)	1
-23	4513	. CAPACITOR, Fixed, ceramic dielectric, 200 uuf ±5 percent, . . . 500 volts dc working	1
-24	8592	. CAPACITOR, Fixed, ceramic dielectric, 300 uuf ±5 percent, . . . 500 volts dc working	1
-25	201(2MEG)	. RESISTOR, Fixed, composition, 2 megohms ±5 percent, ... 1/2 watt (AB) (EB2055)	1
-26	4520	. CAPACITOR, Fixed, ceramic dielectric, 100 uuf ±5 percent, . . . 500 volts dc working	3
-27	8516	. CAPACITOR, Fixed, ceramic dielectric, 4700 uuf, ... 500 volts dc working	2
-28	8554	. CAPACITOR, Fixed, ceramic dielectric, 2700 uuf, ... 500 volts dc working	1
-29	204(150K)	. RESISTOR, Fixed, composition, 150,000 ohms ±10 percent, . . . 1/5 watt (GBR) [997A(150,000)]	1
-30	205(1MEG)	. RESISTOR, Fixed, film, 1 megohm ±1 percent, ... 1/4 watt (IRC) [DDC(1MEG)]	1
-31	4522	. CAPACITOR, Fixed, mica dielectric, 750 uuf ±5 percent, ... 300 volts dc working (AEV) (1466)	1
-32	204(4.7MEG)	. RESISTOR, Fixed, composition, 4.7 megohms ±10 percent, . . . 1/5 watt (GBR) [997A(4.7MEG)]	1
-33	8554	. CAPACITOR, Fixed, ceramic dielectric, 2700 uuf . . . . . ±5 percent, 500 volts dc working	1
-34	17953	. CRYSTAL, Rectifying (HD-6008)	1
-35	205(470K)	. RESISTOR, Fixed, composition, 470,000 ohms ±1 percent, ... 1/2 watt (IRC) [DDC(1MEG)]	1
-36	201(22K)	. RESISTOR, Fixed, composition, 22,000 ohms ±5 percent, ... 1/2 watt (AB) (EB2235)	1
-37	201(470K)	. RESISTOR, Fixed, composition, 470,000 ohms ±5 percent, ... 1/2 watt (AB) (EB4745)	1
-38	201(3.3MEG)	. RESISTOR, Fixed, composition, 3.3 megohms ±5 percent, ... 1/2 watt (AB) (EB3355)	1
-39	201(510)	. RESISTOR, Fixed, composition, 510 ohms ±5 percent, ... 1/2 watt (AB) (EB5115)	2
-40	8825	. RESISTOR, Variable 0 to 100,000 ohms ±20 percent . . . . . (AB) (GLU1042-SD3028L)	1
-41	14378	. TERMINAL, Lug	1
		(ATTACHING PARTS)	
	503(7/32)	. SCREW, Assembled washer, binding head, brass screw, ... nickel plated, 3-48 thd by 7/32 in. long, stainless steel lockwasher (SH) (SEMS)	2
	4103	. WASHER, Lock (SH) (1703-00)	2
		- - - * - - -	
-42	12858	. TERMINAL BOARD	2
		(ATTACHING PARTS)	
	503(5/16)	. SCREW, Assembled washer, binding head, brass screw, ... nickel plated, 3-48 thd by 5/16 in. long, stainless steel lockwasher (SH) (SEMS)	2
	503(5/32)	. SCREW, Assembled washer, binding head, brass screw, ... nickel plated, 3-48 thd by 5/32 in. long, stainless steel lockwasher (SH) (SEMS)	2
		- - - * - - -	
-43	12855	. TERMINAL BOARD	3

Figure & Index No.	ARC Part No.	Description 1 2 3 4 5 6	Units per Assy
		(ATTACHING PARTS)	
7-	503(5/32)	. SCREW, Assembled washer, binding head, brass screw, nickel plated, 3-48 thd by 5/32 in. long, stainless steel lockwasher (SH) (SEMS)	6
		- - - * - - -	
-44	700-104	. ELECTRON TUBE, Type OB2WA	1
-45	14556	. INSULATOR ASSEMBLY	2
		(ATTACHING PARTS)	
	103(7/32)	. SCREW, Machine, binding head, brass, nickel plated, 3-48 thd by 7/32 in. long	2
	10353	. WASHER, Curved	2
	12924	. WASHER, Non-metallic, rubber	2
		- - - * - - -	
-46	9368	. . INSULATOR, Stand-off	2
-47	6812	. . TERMINAL, Stud	2
-48	6559	. SOCKET, Electron tube	1
		(ATTACHING PARTS)	
-49	11976	. RING, Retaining (supplied with 48, figure 7)	1
-50	6566	. RING, Flat	1
		- - - * - - -	
-51	12292	. SOCKET, Electron tube	4
		(ATTACHING PARTS)	
-52	12913	. RING, Retaining (supplied with 51, figure 7)	4
-53	6566	. RING, Flat	4
		- - - * - - -	
-54	22052	. SOCKET, Electron tube	1
		(ATTACHING PARTS)	
	103(7/32)	. SCREW, Machine, binding head, brass, nickel plated, 3-48 thd by 7/32 in. long	2
	10353	. WASHER, Curved	2
		- - - * - - -	
-55	15174	. COIL, Radio frequency, 14 uh (JFE) (CFIr-7/16)	1
-56	4710	. STUD, Threaded	2
		(ATTACHING PARTS)	
	4041	. NUT, Hexagon, brass, 6-32 thd by 1/16 in. thick	2
	8488	. WASHER, Lock (SH) (1706-00)	2
		- - - * - - -	
-57	14588	. CAP, Electrical	1
-58	11934	. DUMMY, Connector plug	1
-59	11905	. CONNECTOR, Plug	1
		(ATTACHING PARTS)	
-60	5131	. NUT, Knurled (supplied with 59, figure 7)	1
		- - - * - - -	
-61	11840	. RING	1
		(ATTACHING PARTS)	
	503(3/16)	. SCREW, Assembled washer, binding head, brass screw, nickel plated, 3-48 thd by 3/16 in. long, stainless steel lockwasher (SH) (SEMS)	6
		- - - * - - -	
-62	19808	. CHASSIS ASSEMBLY, c/o chassis 19809, connector 5488, connector 4718, sleeve 6397, and terminal 5914	1

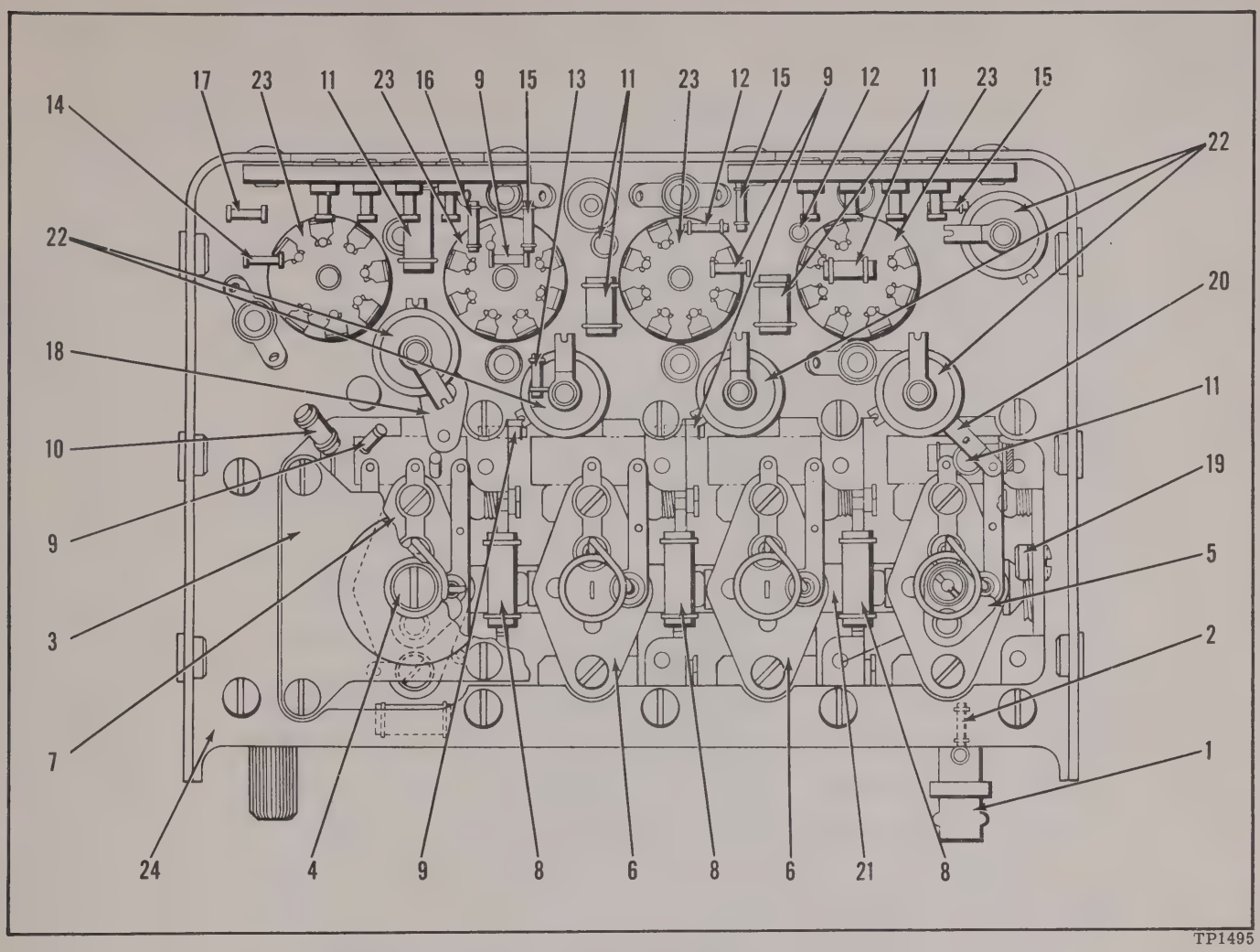


Figure 8. Preselector Unit Assembly, Bottom View

Figure & Index No.	ARC Part No.	Description 1 2 3 4 5 6	Units per Assy
8-	12457(14V)	PRESELECTOR ASSEMBLY (see 15, figure 4)	Ref
8-	12457(28V)	PRESELECTOR ASSEMBLY (see 15, figure 4)	Ref
-1	12449	. CONNECTOR, Receptacle, electrical	1
		(ATTACHING PARTS)	
	103(3/16)	. SCREW, Machine, binding head, brass, nickel plated, ...	2
		3-48 thd by 3/16 in. long	
	10353	. WASHER, Curved	2
		- - - * - - -	
-2	204(150)	. RESISTOR, Fixed, composition, 150 ohms ±10 percent, ...	1
		1/4 watt (GBR) [997CX(150)]	
-3	9957	. SHIELD, Coil	1
		(ATTACHING PARTS)	
	103(5/32)	. SCREW, Machine, binding head, brass, nickel plated, ...	10
		3-48 thd by 5/32 in. long	
		- - - * - - -	
-4	10233	. . SCREW, Adjustment	4
-5	12462	. COIL ASSEMBLY, c/o coil 12189, 12461, and capacitor 8274 . . .	1
		(ATTACHING PARTS)	
	102(7/16)	. SCREW, Machine, binding head, brass, nickel plated, ...	2
		2-56 thd by 7/16 in. long	
		- - - * - - -	
-6	12190	. COIL ASSEMBLY, c/o coil 12189	2

Figure & Index No.	ARC Part No.	Description 1 2 3 4 5 6	Units per Assy
		(ATTACHING PARTS)	
8-	102(7/16)	. SCREW, Machine, binding head, brass, nickel plated, ... 2-56 thd by 7/16 in. long	4
		- - - * - - -	
-7	12194	. OSCILLATOR SUBASSEMBLY, c/o bus bar 12193, ... coil 10583 and 12192, and capacitor 8273	1
		(ATTACHING PARTS)	
	102(7/16)	. SCREW, Machine, binding head, brass, nickel plated, ... 2-56 thd by 7/16 in. long	2
		- - - * - - -	
-8	8796(120)	. CAPACITOR, Fixed, ceramic dielectric, 120 uuf . . . . . ±5 percent, 500 volts dc working	3
-9	204(1K)	. RESISTOR, Fixed, composition, 1000 ohms ±10 percent, ... 1/5 watt (GBR) [997A(1000)]	5
-10	8091	. CAPACITOR, Fixed, ceramic dielectric, 50 uuf . . . . . ±5 percent, 600 volts dc working (CN) (TU20500JU2J)	1
-11	4520	. CAPACITOR, Fixed, ceramic dielectric, 100 uuf . . . . . ±5 percent, 600 volts dc working (CN) (TU30101JU2J)	6
-12	204(680)	. RESISTOR, Fixed, composition, 680 ohms ±10 percent, ... 1/5 watt (GBR) [997A(680)]	2
-13	204(2400)	. RESISTOR, Fixed, composition, 2400 ohms ±10 percent, ... 1/5 watt (GBR) [997A(2400)]	1
-14	204(47K)	. RESISTOR, Fixed, composition, 47,000 ohms ±10 percent, ... 1/5 watt (GBR) [997A(47K)]	1
-15	204(220K)	. RESISTOR, Fixed, composition, 220,000 ohms ±10 percent, . . . 1/5 watt (GBR) [997A(220K)]	3
-16	204(33K)	. RESISTOR, Fixed, composition, 33,000 ohms ±10 percent, ... 1/5 watt (GBR) [997A(33K)]	1
-17	201(10)	. RESISTOR, Fixed, composition, 10 ohms ±5 percent, ... 1/2 watt (AB) (EB1005) [used on R-13B(28V) and R-32(28V)]	1
-18	12528	. INSULATOR, Plate	1
		(ATTACHING PARTS)	
	103(5/32)	. SCREW, Machine, binding head, brass, nickel plated, ... 3-48 thd by 5/32 in. long	1
	12077	. WASHER, Non-metallic, rubber	1
		- - - * - - -	
-19	10284	. TERMINAL, Lug, threaded	1
		(ATTACHING PARTS)	
	103(5/32)	. SCREW, Machine, binding head, brass, nickel plated, ... 3-48 thd by 5/32 in. long	1
		- - - * - - -	
-20	16849	. TERMINAL, Lug	1
-21	11859	. CAPACITOR, Variable, air-dielectric, 4 sections, ... 0-14.76 uuf each section	1
		(ATTACHING PARTS)	
	103(5/32)	. SCREW, Machine, binding head, brass, nickel plated, ... 3-48 thd by 5/32 in. long	10
		- - - * - - -	
-22	14600(180)	. CAPACITOR, Fixed, mica dielectric, 180 uuf . . . . . ±5 percent, 500 volts dc working	5
		(ATTACHING PARTS)	
	103(5/32)	. SCREW, Machine, binding head, brass, nickel plated, ... 3-48 thd by 5/32 in. long	5
	4103	. WASHER, Lock (SH) (1703-00)	5
		- - - * - - -	
-23	10298	. SOCKET, Electron tube (EBY) (9726-7)	4
		(ATTACHING PARTS)	
	103(5/32)	. SCREW, Machine, binding head, brass, nickel plated, ... 3-48 thd by 5/32 in. long	8
		- - - * - - -	
-24	9963	. CHASSIS ASSEMBLY, c/o connector 12533, ... and terminal board 12550	1

SECTION III

NUMERICAL INDEX

Part No.	Figure & Index No.	Total Qty
OB2WA	7-	1
102(7/16)	8-	8
10233	8-4	4
10284	8-19	1
10298	8-23	4
103(5/16)	6-	8
	7-	
103(7/32)	6-	5
	7-	
103(5/32)	6-	43
	8-	
103(3/16)	6-	10
	8-	
10353	6-	7
	7-	
	8-	
104(1/4)	6-	5
	7-	
10583	(p/o 8-7)	1
113(3/16)	3-	14
11840	6-53	2
	7-61	
11859	8-21	1
11905	6-51	2
	7-59	
11912	5-10	1
11934	6-50	2
	7-58	
11976	6-41	2
	7-49	
12077	8-	1
12189	(p/o 8-5)	3
	and 8-6)	
12190	8-6	2
12192	(p/o 8-7)	1
12193	(p/o 8-7)	1
12194	8-7	1
12195	4-11	1
12196	4-9	1
12197	4-10	1
12292	6-43	8
	7-51	
12449	8-1	1
12457(14V)	4-15	1
	8-	
12457(28V)	4-15	1
	8-	
12461	(p/o 8-5)	1
12462	8-5	1
12469	3-3	1
12528	8-18	1
12533	(p/o 8-24)	1
12550	(p/o 8-24)	2
12855	6-34	5
	7-43	
12858	6-33	4
	7-42	
12913	6-44	8
	7-52	

Part No.	Figure & Index No.	Total Qty
12924	6-	3
	7-	
14115	6-47	1
14378	6-32	4
	7-41	
14556	6-37	3
	7-45	
14588	6-49	2
	7-57	
14600(180)	8-22	5
14661	5-9	1
1482	6-3	2
	7-3	
15174	6-46	2
	7-55	
15511(14V)	3-	1
15511(28V)	3-	1
15563	5-2	1
15590	6-54	1
15591	(p/o 6-54)	1
15596	2-2	1
15597	3-4	1
15598	3-4	1
15599	2-1	1
15659	4-8	1
16641	6-36	2
	7-45	
16849	8-20	1
17953	7-34	1
19527	3-4	1
19808	7-62	1
19809	(p/o 7-63)	1
19810(14V)	3-	1
19810(28V)	3-	1
19813	3-4	1
19864	2-1	1
19865	2-2	1
201(*)	6-16	4
	6-17	
	7-16	
	7-17	
201(1MEG)	6-8	4
	7-8	
201(10)	8-17	1
201(10K)	6-9	2
	7-9	
201(10MEG)	6-18	2
	7-18	
201(100K)	6-15	4
	7-15	
201(1500)	5-3	3
	6-20	
	7-20	
201(2MEG)	6-24	2
	7-25	
201(20K)	6-10	2
	7-10	
201(200)	6-7	10
	7-7	

Part No.	Figure & Index No.	Total Qty
201(200K)	6-21	4
	7-21	
201(22K)	7-36	1
201(3.3MEG)	7-38	1
201(3MEG)	6-19	2
	7-19	
201(39K)	6-12	1
201(390)	6-11	2
	7-11	
201(470K)	7-37	1
201(510)	7-39	2
201(56K)	7-12	1
201(82K)	7-22	1
201(820)	6-14	4
	7-14	
204(1K)	8-9	5
204(150)	8-2	1
204(150K)	6-28	2
	7-29	
204(220K)	8-15	3
204(2400)	8-13	1
204(2.7MEG)	6-31	1
204(33K)	8-16	1
204(4.7MEG)	7-32	1
204(47K)	8-14	1
204(680)	8-12	2
205(1MEG)	6-29	2
	7-30	
205(470K)	7-35	1
22052	7-54	1
4041	6-	4
	7-	
4089	6-4	2
	7-4	
4103	6-	25
	7-	
	8-	
4513	6-22	2
	7-23	
4520	6-25	12
	7-26	
	8-11	
4522	6-30	2
	7-31	
4681	4-7	4
4710	6-48	4
	7-56	
4718	(p/o 6-54)	2
	(p/o 7-63)	
503(5/32)	4-14	40
	5-	
	7-	
503(3/16)	7-	6
503(7/32)	4-13	19
	5-	
	7-	
503(1/4)	4-	8
503(5/16)	7-	4
504(3/16)	4-	2
513(3/16)	3-	4
5131	6-52	2
	7-60	
5258	6-1	2
	7-1	

Part No.	Figure & Index No.	Total Qty
5402	6-	5
	7-	
5413	5-8	1
5414	5-5	5
5416	5-4	1
5488	(p/o 6-54)	2
	(p/o 7-63)	
5546	5-11	1
5634	5-7	1
5895(7K)	6-7	3
	7-6	
5914	(p/o 6-54)	2
	(p/o 7-63)	
6350	5-6	2
6397	(p/o 6-54)	2
	(p/o 7-63)	
6559	6-40	2
	7-48	
6566	6-42	10
	6-45	
	7-50	
	7-53	
6812	6-39	3
	7-47	
700-104	7-44	1
700-160	4-6	1
700-170	4-5	3
700-171	4-1	1
700-189	4-4	1
700-191	4-2	1
700-192	4-3	2
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8040	6-	1
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8274	(p/o 8-5)	1
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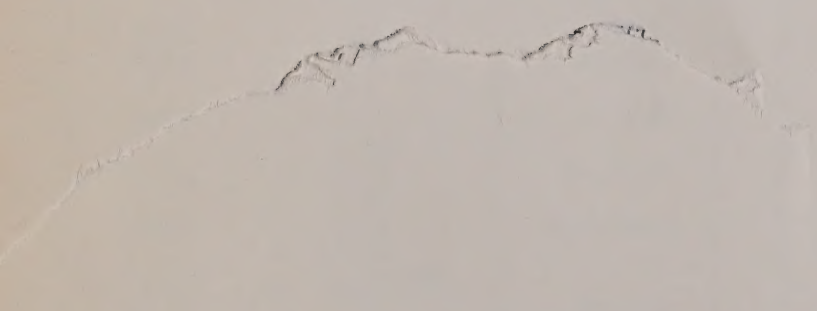

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